which *Saturn* is at this Time very near, and after the ſame Method I ſettled its Place, *ineunte Anno* 1690, (the Epoch of the *Britiſh* Catalogue) in 29° 34′ of *Scorpio* with 2° 0′ ½, North Latitude. By this it will appear, how defective the obſerved Place of *Saturn* is ſtated in *Riccioli*, there being above ſeven Minutes erred in the Latitude thereof.

II. *Obſervation of a* Parhelion, Oct. 26*th*, 1721. *By the ſame.*

THIS Morning, 26th of *October*, being on the River coming up to *London*, about half an Hour paſt Ten, the Sun being then about twenty Degrees high, I obſerved a Circle about the Sun, which is by no means unuſual, when the Air in chilly Weather, ſuch as it is now, is replete with ſnowy Particles; which Circle was of the Size it always appears in, about 23 Degrees from the Sun, and faintly ting'd with the Colours of the *Iris*. When this Circle happens, I always look out, to ſee whether any other of the Phenomena that ſometimes attend it did at that Time appear, ſuch as *Parhelia*, and other colour'd Circles, concentrick with the Sun, and ſometimes, as once I ſaw it, excentrick; as alſo a white Circle round the *Zenith*, in equal Altitude with the Sun: But this Time, the Air being thickned with a hazy Vapour, and the Smoke of the Town, I could only ſee to the Eaſtward a luminous white Patch, which for about twenty Minutes ſhone through the thick Air very conſpicuouſly, of about two Degrees diameter, as near as I could eſtimate it, and about the ſame Altitude with the Sun: and from it, towards the Sun, there ſeemed to proceed a long

white Tail, much narrower than the Mock-Sun, but which I took to be a Segment of the white Circle which I once ſaw entire in *London*. Had the Air been clear, I doubt not but much more of the Phenomena of the *Parhelia* might this Time have been obſerved: and I hope, that from our Neighbourhood ſome Member of the *Society* may furniſh us with a fuller Relation. But how to explain theſe Appearances, and account for the Magnitude of theſe Circles, is what ſeems ſtill wanting.

III. *An Account of two* Mock-Suns, *and an* Arc of a Rainbow inverted, *with an* Halo, *and its brighteſt Arc, ſeen on* Sunday *and* Monday, Octob. 22, & 23. 1721. *at* Lyndon, Comitat' Rutland, *communicated by the Rev. Mr.* William Whiſton, *M. A. ſometime Profeſſor of the Mathematicks in the Univerſity of* Cambridge.

ABOUT Ten o'Clock in the Morning, on *Sunday, Octob.* 22. 1721. being at the Houſe of *Samuel Barker*, Eſq; of *Lyndon* in the County of *Rutland*, after an *Aurora Borealis* the Night before (Wind W. S. W.) I ſaw an Attempt towards two *Mock-Suns*, as I had done ſometimes formerly, of which I immediately inform'd Mr. *Barker*, though without any great Expectations of what followed. About ½ or ¾ of an Hour after, I went to view the Heavens, and then found the Appearance compleat; and when Mr. *Barker* and others of the Family were call'd, we all ſaw it, and all

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